

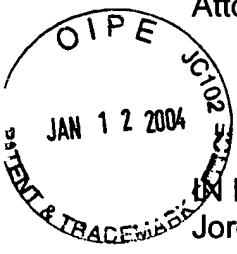
01-13-04

[Handwritten signature]

Attorney Docket No. 8793-52026

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



IN RE THE PATENT APPLICATION OF: Laurent Bellaiche, Aaron M. George and Jorge Iniguez

Appl. No.: 10/632,740

Group Art Unit: 1755

Filed: 08/01/03

Examiner:

For: Enhanced Electromechanical Properties in Atomically-Ordered Ferroelectric Alloys

**Commissioner for Patents
P.O. Box 1450]
Alexandria, VA 22313-1450**

COVER SHEET FOR TRANSMITTING ASSIGNMENT FOR RECORDAL

Attached please find an assignment for recordal.

1. The assignment is for the patent application identified above.
2. A. The total number of applications and/or patents identified in this cover sheet is one (1).
- B. The total fee is (37 CFR 1.21(h)): \$40.00.

<u>CERTIFICATE OF MAILING BY EXPRESS MAIL</u>	
Express Mail mailing label no.	<u>ET302941089US</u>
I hereby certify that this correspondence and the documents referred to as enclosed therein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450	
on:	<u>1-12-04</u>
(Date)	<u><i>Sherman Robinson</i></u>
Signature	<u>Sherman Robinson</u>
Printed Name	

C. Payment of fee is made by the attached check for \$40.00. Please charge Account No. 23-3263 for any fee deficiency. Please refund any overpayment. A duplicate of this cover sheet is attached.

3. The parties conveying interest are Laurent Bellaiche, Aaron M. George and Jorge Iniguez.

4. The rights are being conveyed to:

Name: Board of Trustees of the University of Arkansas

Address: 2404 North University Avenue
Little Rock, Arkansas 72207-3608

5. The accompanying document intends to accomplish an assignment.

6. Please address correspondence to:

Ray F. Cox, Jr.
Reg. No. 33,669
WRIGHT, LINDSEY & JENNINGS LLP
200 W. Capitol, Suite 2300
Little Rock, Arkansas 72201-3699
(501) 371-0808

7. The attached assignment was executed on September 18, 2003 by Laurent Bellaiche, on November 11, 2003 by Aaron M. George and on September 4, 2003 by Jorge Iniguez.

8. The attached assignment is in the English language.

9. Submitted herewith is the original assignment.

10. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

11. The total number of pages being submitted, including cover sheet, attachments and documents is thirteen (13).

Date: Jan. 12, 2004

Reg. No.: 33,669
Tel.: (501) 371-0808



Ray F. Cox, Jr.
WRIGHT, LINDSEY & JENNINGS LLP
200 W. Capitol, Suite 2300
Little Rock, Arkansas 72201-3699



Attorney Docket No. 8793-52026

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE PATENT APPLICATION OF: Laurent Bellaiche, Aaron M. George and
Jorge Iniguez

Appl. No.: 10/632,740

Group Art Unit:

Filed: 08/01/03

Examiner:

For: Enhanced Electromechanical Properties in Atomically-Ordered Ferroelectric Alloys

DECLARATION

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below, next to my name, and that I believe I am an original, first and joint inventor of the subject matter which is claimed and described in the specification identified above and for which a patent is sought in this application entitled:

Enhanced Electromechanical Properties in Atomically-Ordered Ferroelectric Alloys

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, and acknowledge the duty to disclose information which is material to patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim the benefit under Title 35, United States Code § 119(e) of U.S. Provisional Application No. 60/401,995 filed on August 8, 2002.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and

further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Laurent Bellaiche

Bellaiche
Inventor's Signature

Residence: Fayetteville, Arkansas

Post Office Address: ~~1824 Pine Cone Drive~~
Fayetteville, Arkansas 72704

1757 N. Misty Lane LB
72701

Citizenship: France

Date: 09/18/03

09/18/03

Aaron M. George

Inventor's Signature

Residence: Fayetteville, Arkansas

Post Office Address: 1469 Amber Drive
Fayetteville, Arkansas 72703

Citizenship: US

Date: _____

Jorge Iniguez

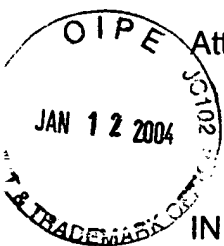

Inventor's Signature

Residence: Gaithersburg, Maryland

Post Office Address: 348 N. Summit Ave., Apt. 203
Gaithersburg, Maryland 20877-3716

Citizenship: Spain

Date: 9/4/03



Attorney Docket No. 8793-52026

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE PATENT APPLICATION OF: Laurent Bellaiche, Aaron M. George and Jorge Iniguez

Appl. No.: 10/632,740

Group Art Unit:

Filed: 08/01/03

Examiner:

For: Enhanced Electromechanical Properties in Atomically-Ordered Ferroelectric Alloys

DECLARATION

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below, next to my name, and that I believe I am an original, first and joint inventor of the subject matter which is claimed and described in the specification identified above and for which a patent is sought in this application entitled:

Enhanced Electromechanical Properties in Atomically-Ordered Ferroelectric Alloys

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, and acknowledge the duty to disclose information which is material to patentability of this application in accordance with Title 37, Code of Federal Regulations, §1.56(a).

I hereby claim the benefit under Title 35, United States Code § 119(e) of U.S. Provisional Application No. 60/401,995 filed on August 8, 2002.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and

further that the statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Laurent Bellaiche



Inventor's Signature

Residence: Fayetteville, Arkansas

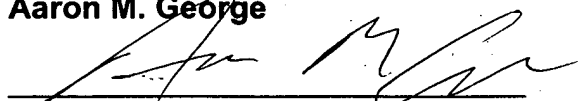
Post Office Address: ^{1757 Misty Lane} ~~1824 Pine Cone Drive~~
Fayetteville, Arkansas ⁷²⁷⁰⁴ ~~72704~~
₇₂₇₀₁

LB 09/18/03

Citizenship: France

Date: 09/18/03

Aaron M. George



Inventor's Signature

Residence: Summerfield, North Carolina

Post Office Address: 7549 Strawberry Road
Summerfield, North Carolina 27358

Citizenship: US

Date: 11/11/03

Jorg Iniguez

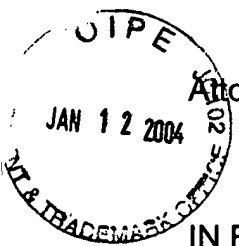
Inventor's Signature

Residence: Gaithersburg, Maryland

Post Office Address: 348 N. Summit Ave., Apt. 203
Gaithersburg, Maryland 20877-3716

Citizenship: Spain

Date: _____



Attorney Docket No. 8793-52026

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE PATENT APPLICATION OF: Laurent Bellaiche, Aaron M. George and Jorge Iniguez

Appl. No.: 10/632,740

Group Art Unit: 1755

Filed: 08/01/03

Examiner:

For: Enhanced Electromechanical Properties in Atomically-Ordered Ferroelectric Alloys

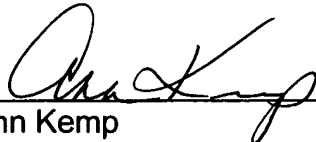
STATEMENT UNDER 37 CFR 3.73(b)—
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION

1. The assignee of the entire right, title and interest hereby seeks to take action in the PTO in this matter.
2. The assignee, Board of Trustees of the University of Arkansas, is a public body, corporate and politic, duly established under and pursuant to the Constitution and Laws of the State of Arkansas.
3. The person authorized to act on behalf of the assignee is:

Ann Kemp

Title: Vice President for Finance and Administration
4. The ownership by the assignee is established as follows: an assignment being submitted for recordal herewith. A copy of the assignment is attached to this Statement.

Date: 12/19/03



Ann Kemp
Vice President for Finance
and Administration

ASSIGNMENT

1757 Misty Lane LB 09/18/03
WHEREAS, We, Laurent Bellaiche, of ~~1824 Pine Cone Drive~~, Fayetteville,
1257 LB 09/18/03 72701
Arkansas 72704; Aaron M. George, of 7549 Strawberry Road, Summerfield, North
Carolina 27358; and Jorge Iniguez, of 348 N. Summit Ave., Apt. 203, Gaithersburg,
Maryland 20877-3716 ("Assignors"), have invented certain new and useful
improvements in an invention entitled "Enhanced Electromechanical Properties in
Atomically-Ordered Ferroelectric Alloys", set forth in United States Patent Application
No. 10/632,740 filed on August 1, 2003 and claiming the benefit of U.S. Provisional
Patent Application No. 60/401,995 filed August 8, 2002; and

WHEREAS, the Board of Trustees of the University of Arkansas, a public body
politic and corporate, duly established under and pursuant to the laws and Constitution
of the State of Arkansas, and having an office and place of business at the University of
Arkansas, 2404 North University Avenue, Little Rock, Arkansas 72207-3608
("Assignee") is desirous of acquiring the entire right, title and interest in said invention,
in said application, and in any Letters Patent or Patents, United States or foreign, to be
obtained therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and
sufficiency of which is hereby acknowledged, We, the said Assignors, and by these
presents do assign, sell, transfer and set over, unto the said Assignee, its successors,
legal representatives and assigns, the entire right, title and interest in and to the above
mentioned invention, applications for Letters Patent, and any and all Letters Patent or
Patents in the United States of America and all foreign countries which may be granted

therefor and thereon, including all rights to claim priority, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or re-examinations of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the said Assignee, for its own use and behoof, and the use and behoof of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

And for the same consideration, the said Assignors hereby covenant that no assignment, sale, agreement or encumbrance has been or will be entered into which would conflict with this assignment.

And for the same consideration, the said Assignors hereby covenant and agree to and with the said Assignee, its successors, legal representatives and assigns, that the said Assignors will, whenever counsel of the said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said applications for Letters Patent or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent

for said inventions, without charge to the said Assignee, its successors, legal representatives and assigns, but at the cost and expense of the said Assignee, its successors, legal representatives and assigns.

And the said Assignors hereby request the Director of the United States Patent and Trademark Office to issue said Letters Patent of the United States to the said Assignee, as the Assignee of said inventions and the Letters Patent to be issued thereon for the sole use and behoof of the said Assignee, its successors, legal representatives and assigns.

SIGNED this 18 day of September, 2003.

Bellaiche

LAURENT BELLAICHE

ACKNOWLEDGMENT

STATE OF ARKANSAS)
)ss
COUNTY OF Washington)

On this 18th day of September, in the year 2003, before me, Gail G. Pika, a Notary Public in and for the State of Arkansas, personally appeared Laurent Bellaiche, personally known to me/or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged that he/she executed the same.

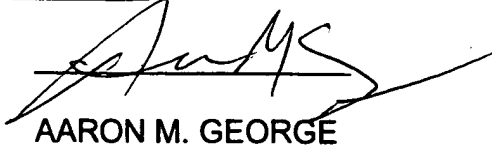
In witness whereof, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.

Gail G. Pika
Notary Public

My commission expires:

11-2-2009

SIGNED this 11 day of November, 2003.


AARON M. GEORGE

ACKNOWLEDGMENT

STATE OF NORTH CAROLINA)
COUNTY OF Wake)ss

pps On this 11th day of November in the year 2003, before me, Joyce P. Stevens, a Notary Public in and for the State of North Carolina, personally appeared Aaron M. George, personally known to me/or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged that he/she executed the same.

In witness whereof, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.


Notary Public

My commission expires:

April 15, 2006

SIGNED this ____ day of _____, 2003.

JORGE INIGUEZ

ACKNOWLEDGMENT

STATE OF _____)
)ss
COUNTY OF _____)

On this _____ day of _____, in the year 2003, before me, _____, a Notary Public in and for the State of _____, personally appeared Jorge Iniguez, personally known to me/or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged that he/she executed the same.

In witness whereof, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.

Notary Public

My commission expires:

ASSIGNMENT

LB 09/18/03
WHEREAS, We, Laurent Bellaiche, of ^{1757 Midway Lane} ~~1824 Pine Cone Drive~~, Fayetteville, Arkansas ⁷²⁷⁰¹ ~~72704~~; Aaron M. George, of 1469 Amber Drive, Fayetteville, Arkansas 72703; and Jorge Iniguez, of 348 N. Summit Ave., Apt. 203, Gaithersburg, Maryland 20877-3716 ("Assignors"), have invented certain new and useful improvements in an invention entitled "Enhanced Electromechanical Properties in Atomically-Ordered Ferroelectric Alloys", set forth in United States Patent Application No. 10/632,740 filed on August 1, 2003 and claiming the benefit of U.S. Provisional Patent Application No. 60/401,995 filed August 8, 2002; and

WHEREAS, the Board of Trustees of the University of Arkansas, a public body politic and corporate, duly established under and pursuant to the laws and Constitution of the State of Arkansas, and having an office and place of business at the University of Arkansas, 2404 North University Avenue, Little Rock, Arkansas 72207-3608 ("Assignee") is desirous of acquiring the entire right, title and interest in said invention, in said application, and in any Letters Patent or Patents, United States or foreign, to be obtained therefrom;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, We, the said Assignors, and by these presents do assign, sell, transfer and set over, unto the said Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above mentioned invention, applications for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted

therefor and thereon, including all rights to claim priority, and in and to any and all divisions, continuations, and continuations-in-part of said application, or reissues or re-examinations of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the said Assignee, for its own use and behoof, and the use and behoof of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the Assignors, had this sale and assignment not been made.

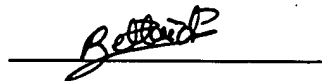
And for the same consideration, the said Assignors hereby covenant that no assignment, sale, agreement or encumbrance has been or will be entered into which would conflict with this assignment.

And for the same consideration, the said Assignors hereby covenant and agree to and with the said Assignee, its successors, legal representatives and assigns, that the said Assignors will, whenever counsel of the said Assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said applications for Letters Patent or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent

for said inventions, without charge to the said Assignee, its successors, legal representatives and assigns, but at the cost and expense of the said Assignee, its successors, legal representatives and assigns.

And the said Assignors hereby request the Director of the United States Patent and Trademark Office to issue said Letters Patent of the United States to the said Assignee, as the Assignee of said inventions and the Letters Patent to be issued thereon for the sole use and behoof of the said Assignee, its successors, legal representatives and assigns.

SIGNED this 18 day of September, 2003.



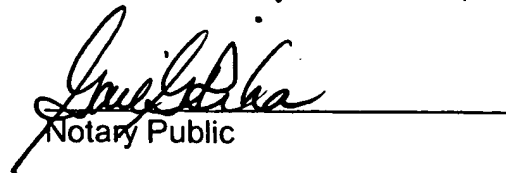
LAURENT BELLAICHE

ACKNOWLEDGMENT

STATE OF ARKANSAS)
)ss
COUNTY OF Washington

On this 18th day of September in the year 2003, before me, Gail G. Piha, a Notary Public in and for the State of Arkansas, personally appeared Laurent Bellaiche, personally known to me/or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged that he/she executed the same.

In witness whereof, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.


Notary Public

My commission expires:

11-2-2009

SIGNED this ____ day of _____, 2003.

AARON M. GEORGE

ACKNOWLEDGMENT

STATE OF ARKANSAS)
)ss
COUNTY OF _____)

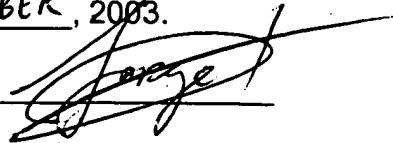
On this ____ day of _____, in the year 2003, before me, _____, a Notary Public in and for the State of Arkansas, personally appeared Aaron M. George, personally known to me/or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged that he/she executed the same.

In witness whereof, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.

Notary Public

My commission expires:

SIGNED this 4th day of SEPTEMBER, 2003.

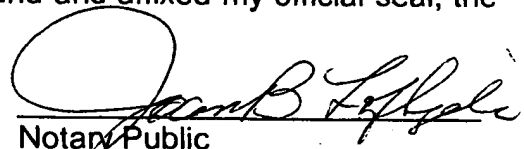

JORGE INIGUEZ

ACKNOWLEDGMENT

STATE OF Maryland)
)ss
COUNTY OF Montgomery)

On this 4th day of September in the year 2003, before me, Joan B Lofhielm, a Notary Public in and for the State of Maryland, personally appeared Jorge Iniguez, personally known to me/or proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to this instrument, and acknowledged that he/she executed the same.

In witness whereof, I have hereunto set my hand and affixed my official seal, the day and year in this certificate first above written.


Notary Public

My commission expires:

JOAN B. LOFHIELM
NOTARY PUBLIC STATE OF MARYLAND
My Commission Expires June 1, 2004



Attorney Docket No. 8793-52026

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE PATENT APPLICATION OF: Laurent Bellaiche, Aaron M. George and
Jorge Iniguez

Appl. No.: 10/632,740

Group Art Unit: 1755

Filed: 08/01/03

Examiner:

For: Enhanced Electromechanical Properties in Atomically-Ordered Ferroelectric Alloys

POWER OF ATTORNEY

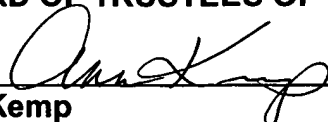
As the assignee of record of the entire interest of the above identified application,
the Board of Trustees of the University of Arkansas hereby appoints the following
attorneys to prosecute this application and transact all business in the United States
Patent and Trademark Office connected therewith: Ray Forrest Cox, Jr., Reg. No.
33,669; and J. Charles Dougherty, Reg. No. 41,715.

All correspondence with respect to this application should be directed to:

Ray F. Cox, Jr.
Wright, Lindsey & Jennings LLP
200 West Capitol Avenue, Suite 2300
Little Rock, Arkansas 72201
(501) 371-0808

Filed with this power is a Statement under 37 CFR 3.73(b).

BOARD OF TRUSTEES OF THE UNIVERSITY OF ARKANSAS

By:  Date: 12/19/03

Ann Kemp

Vice President for Finance and Administration

University of Arkansas System

2404 North University Avenue

Little Rock, Arkansas 72207-3608



Attorney Docket No. 8793-52026

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE THE PATENT APPLICATION OF: Laurent Bellaiche, Aaron M. George and
Jorge Iniguez

Appl. No.: 10/632,740

Group Art Unit: 1755

Filed: 08/01/03

Examiner:

For: Enhanced Electromechanical Properties in Atomically-Ordered Ferroelectric Alloys

**STATEMENT CLAIMING SMALL ENTITY STATUS -
NON-PROFIT ORGANIZATION**

I hereby state that I am an official empowered to act on behalf of the non-profit
organization identified below:

Board of Trustees of the University of Arkansas

Address: University of Arkansas System
2404 North University Avenue
Little Rock, Arkansas 72207-3608

Type of Organization: University

I hereby state that the non-profit organization identified above qualifies as a non-
profit organization as defined in 37 CFR 1.27(a)(3) for purposes of paying reduced fees
under Section 41(a) and (b) of Title 35, United States Code, to the Patent and
Trademark Office with regard to the invention described in the specification identified
above.

I hereby state that rights under contract or law have been conveyed to and
remain with the non-profit organization with regard to the above-identified invention.

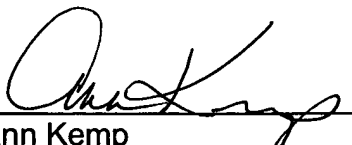
[If the rights held by the non-profit organization are not exclusive, each individual, concern or organization having rights in the invention must file separate verified statements averring to their status as small entities and that no rights to the invention are held by any person, other than the inventor, who would not qualify as a person under 37 CFR 1.27(a)(1) if that person made the invention, or by any concern which would not qualify as a small business under 37 CFR 1.27(a)(2) or a non-profit organization under 37 CFR 1.27(a)(3).]

Each person, concern, or organization having any rights in the invention are listed below:

This invention was made using support from agencies of the United States Government: Office of Naval Research Grant Nos. N00014-00-1-0542 and N00014-01-1-0600 and National Science Foundation Grant No. DMR-9983678. The government has certain rights in the invention.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate.

Date: 12/19/03


Ann Kemp
Vice President for Finance
and Administration
University of Arkansas System
2404 North University Avenue
Little Rock, Arkansas 72207-3608